

[illegible]

OY	279	EGEENGKRGHFTHVRLDQONPED	305
I	:	:	: :
Bd	276	egevmgrkglfptlwkltfdqndpn	302

RESULT 4
AAR77439
ID AAR77439 standard; Protein; 303 AA.
XX
AC AAR77439;
XX
DT 21-JUL-1996 (first entry)
XX
DE Mouse CRKL protein.
XX
KW Mouse CRKL protein; tyrosine phosphorylation; diagnosis;
KM chronic myelogenous leukaemia; acute lymphoblastic leukaemia;
KW Philadelphia chromosome; BCL; ABL; treatment.
XX
OS Mus musculus.

Key	Location/Qualifiers
FT Binding-site	9..103
FT Domain	/note= "SH2 domain"
FT Domain	131...179
FT Modified-site	/note= "N-terminal SH3 domain"
FT Modified-site	193...210
FT Domain	/note= "tyrosine phosphorylation site" 238...290
FT Domain	/note= "C-terminal SH3 domain"

Pt WO9531545-A2.
PN 23-NOV-1995.
PD XX
PE 12-MAY-1995; 95WO-US05957,
PF PR
PR 13-MAY-1994; 94US-0242513.
PA (CHIL-) CHILDRENS HOSPITAL LOS ANGELES.
PI Groffen JH, Heisterkamp NC, Ten Hoeve J;
DR WPI; 1996-010931/OI.
PS N-PsDB; AAT04144.

Diaagnosis of tyrosine phosphorylated CRKL protein cancers - by detecting increased level of CRKL protein or CRKL binding protein, also compmsr. for treating chronic myelogenous leukemia.

Claim 37; Fig 10B; 74pp; English.

The mouse CRKL protein may be used in the diagnosis of Philadelphia chromosome-positive leukemias. For example, since CRKL is clearly tyrosine-phosphorylated in chronic myelogenous leukemia and Philadelphia chromosome (Ph)-positive acute lymphoblastic leukemia patients expressing the BCR/ABL protein, but not in BCR-ABL-negative peripheral blood cells, tyrosine-phosphorylation of CRKL may be used as a diagnostic indicator for BCL/ABL activity in Ph-positive leukemia. Thus, overexpression of tyrosine-phosphorylated CRKL protein, or an increase in protein, gene copy number or mRNA is indicative of Ph-positive leukemia. Fragments of the CRKL protein may also be used in the treatment of individuals with cancers arising from cells which express the CRKL protein by inhibition of the synthesis or activity of the CRKL protein.

Query Match	54.0%;	Score 913.5;	DB 17;	Length 303;
Best Local Similarity	56.0%;	Pred. No. 2.le-73;		
Matches 183; Conservative	35;	Mismatches 56;	Indels 53;	Gaps 6;

CC neurene disorders, or cardiac disorders e.g. heart disease, where the
 CC ability to induce neural/ cardiac tissue proliferation would be useful.
 CC The present sequence was used for sequence homology comparison.
 XX
 SQ Sequence 50 AA:

Query Match 15.2%; Score 257; DB 21; Length 50;
 Best Local Similarity 90.0%; Pred. No. 5,4e-16;
 Matches 45; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

OY 142 ALFDENGDEEDLPKKGDLIRIDRPEEQWMAEDSEGRKGMIPVYVE 191
 Db 1 alfdfkgndedlpfkkkgdlirkdpeeqwmaedmdgkrigmipvyve 50

RESULT 7
 AAM18063
 ID AAM18063 standard; Protein: 217 AA.

AC AAM18063;

DT 06-DEC-1997 (first entry)

DE Growth factor receptor-binding protein 2 homologue Grb2-1.

KW Growth factor receptor-binding protein 2 homologue; Grb2-1; human;
 KW signal transduction; antagonist; antisense; immunosuppressive;
 KW autoimmune disease; transplant rejection; agonist; HIV; infection;
 KW cancer; diagnosis; gene therapy.

OS Homo sapiens.

PN W09720573-A1.

PD 12-JUN-1997.

PF 04-DEC-1995; 95WO-US15883.

PR 04-DEC-1995; 95WO-US15883.

PA (HUMA-) HUMAN GENOME SCI INC.

PA (JOSL) JOSLIN DIABETES CENT INC.

PA (SMIK) SMITHKLINE BEECHAM CORP.

PI Dunnington D, Ni J, Shoelson SE;

DR WPI; 1997-319539/29.

DR N-PSDB; AAT67275.

PT Growth factor receptor-binding protein 2 homologue and related DNA -

PT used to develop products for diagnosis and therapy of, e.g.

PT autoimmune diseases, transplant rejection, HIV infection or cancer

PS Claim 4; Page 38-39; 57pp; English.

CC This polypeptide comprises a human growth factor receptor-binding

CC protein 2 homologue, Grb2-1 (AAM18063), that exhibits T-cell

CC specificity. Its amino acid sequence was deduced from a cDNA

CC library. It shows 58% identity with the human Grb2 amino acid

CC sequence. Methods are claimed for producing pure human Grb2-1

CC protein in a recombinant host cell, for treating conditions related

CC to insufficient Grb2-1 protein function, and for identifying

CC compounds that modulate Grb2-1 activity, such as substances that

CC modulate the ras pathway in T-lymphocytes by affecting the binding

CC of Grb2-1 to the cell membrane. Modulation of Grb2-1 function can

CC be used to affect immune system function by affecting T-cell

CC proliferation pathways. Antagonists have immunosuppressive

CC activities and can be used to treat and prevent autoimmune diseases

CC and transplant rejection. Agonists can be used to treat immune

CC deficiency states such as HIV infection or cancer.

SQ Sequence 217 AA:

Query Match 15.2%; Score 257; DB 18; Length 217;
 Best Local Similarity 31.4%; Pred. No. 3.8e-15;
 Matches 64; Conservative 40; Mismatches 54; Indels 46; Gaps 9;

OY 2 RCGAG---NFDSEERSWYMGRLSRQDAVALLOGRH-GVFLVDSSTSPGVLSVSE 56
 Db 42 rvegfifpknylr/vphwysgrlsrqlaeelmkrlhlgflilresesspgetsvny 101

OY 57 NSRVSHTI--NSSGPRPPVPPSPAQPPGVSPSLRIGDOEDSLPALLEFKTHYLD 114
 Db 102 gqgvqhfxfvlireasg-----kyflweekinslnelvdlyr-----t 137

OY 115 TTLIEPVARSRCGSGVILLROE-----AEYVALPFDNGNDEEDLPKKGDLIRIDR 167
 Db 138 lt---lakkrq---flrdeepllkspgacfaqaqdfdsaqpsqslsfrgdlievler 190

OY 168 PEOQWMAEDSEGRKGMIPVYVE 191
 Db 191 pdphwvgr-scgrvgfffrsyvq 213

RESULT 8
 AAR85918
 ID AAR85918 standard; Protein: 217 AA.

AC AAR85918;

DT 16-MAY-1996 (first entry)

DE Human GRB-2.

KW GRB-2; growth factor receptor bound; tyrosine kinase; regulation;
 KW cell growth; cellular metabolism; screening; signal transduction;
 KW cancer; diabetes; CORT technique; cloning of receptor targets.

OS Homo sapiens.

PN W09524426-A1.

PD 14-SEP-1995.

PF 13-MAR-1995; 95WO-US03385.

PR 11-MAR-1994; 94US-0208887.

PA (UYNY) UNIV NEW YORK STATE.

PI Margolis BL, Schlessinger J, Skolnik EY;

DR WPI; 1995-328235/42.

DR N-PSDB; AAT07167.

PT DNA encoding tyrosine kinase-binding proteins - used to screen

PT agents capable of modulating cell growth or cellular metabolism

PS Disclosure; Fig 26A-C; 215pp; English.

CC Using a new cloning technique, CORT (cloning of receptor targets)

CC several new tyrosine kinase (TK) binding proteins were isolated. Growth

CC factor receptor bound proteins GRB-1, GRB-2, GRB-3, GRB-4, GRB-7 and

CC GRB-10 were isolated using this method. This sequence represents GRB-2.

CC The proteins bind to a tyrosine-phosphorylated domain of a eukaryotic

CC TK. GRB proteins can be used for screening agents which are capable

CC of modulating cell growth that occurs via signal transduction through

CC TKs. Such agents can be used to prevent or inhibit cell growth or to

CC counteract tumour development. GRB proteins are also useful for

CC identifying susceptibility to diseases associated with alterations in

CC cellular metabolism mediated by TK pathways e.g. cancer and diabetes.

XX Sequence 217 AA:

	Query Match	13.2%:	Score 224:	DB 19:	Length 217:	
	Best Local Similarity	27.9%:	Pred. No. 3.3e-12:			
	Matches 53:	Conservative 44:	Mismatches 57:	Indels 36:	Gaps 7:	
QY	7 NFDSEERSWTWGRLSROEAVALLQGQRH-GVFLVRDSSTSDGDYYLVSYSENSRVSHTII	65				
	: :					
Db	51 nyiemkbpwffgktprakaeemlskgrhdgaflirsesapgdetslsvkfngdvqhfekv	110				
QY	66 NSSGRRPVPPSPAPNPCCGVSSRLRIDQDEEDSLPALLEFKIKHYDITTLIEPYARSR	125				
	: :					
Db	111 lrdg-----agkyflvwvkfnslnelvdynr-----stl-----vsrgt	144				
QY	126 QGSGLILKQ-----EEAEYRALPFPGNGDEEDLDPFKKGDIIRLRDKPEEQWMNADSESG	180				
	: :					
Db	145 g---ifldiedgvppqpyvgalfdfdpdgedelfgrisdflhmudnsgpnwwkga-chg	200				
QY	181 KRGMIPFPIYV 190					
	: :					
Db	201 qtgmfprnyv 210					

CC	XX	RESULT 11
CC	XX	AAR84636
CC	ID	AAR84636 standard; Protein; 217 AA.
CC	AC	AAR84636;
CC	DT	25-FEB-1996 (first entry)
CC	DE	Grb2 protein.
CC	KW	Grb2; BCR-ABL; tyrosine kinase; transformation; Ras; oncoprotein; leukaemia.
CC	OS	Homo sapiens.
CC	FH	Key Location/Qualifiers
CC	FT	Domain 5..55
CC	FT	/label= SH3_domain
CC	FT	60..157
CC	FT	/label= SH2_domain
CC	FT	163..214
CC	FT	/label= SH3_domain
CC	XX	
CC	PN	CA2113494-A.
CC	PD	15-JUL-1995.
CC	PF	14-JAN-1994; 94CA-2113494.
CC	PR	14-JAN-1994; 94CA-2113494.
CC	PA	(MOUN) MOUNT SINAI HOSPITAL CORP.
CC	PA	(TEXA) UNIV TEXAS.
CC	PI	Arlinghaus R, Gish G, Liu J, Pawson A, Pull L;
CC	DR	WPI: 1995-302931/40.
CC	DR	N-PSDB: AAT05108.
CC	PT	Detection of agents that modify BCR-ABL mediated transformation - useful in treatment of leukaemia and other malignancies
CC	PS	Example 1; Page 48; 106pp: English.
CC	XX	
CC	XX	The human Grb2 protein (AAR84636) acts as an adaptor to link BCR-ABL tyrosine-kinase to mSosl (AAR84638). The resulting BCR-ABL-Grb2-mSosl complex activates the Ras pathway leading to morphological transformation. Substances that affect this transformation are useful in the treatment of chronic, acute myelogenous or acute lymphocytic leukaemia, and are identified by reaction with Grb2 (or its SH2 or SH3 domains) and with a cpd. contg. the Brb2- binding site on BCR-ABL, Sos or Shc and examination of any resulting

[illegible]

RESULT	T	12
AAAR26061	ID	AAAR26061 standard; Protein; 317 AA.
XX	AC	AAAR26061;
XX	DT	02-FEB-1993 (first entry)
XX	DE	Growth Factor Receptor Bound protein GRB-2 partial sequence.
XX	KW	Tyrosine phosphorylation; epidermal growth factor receptor; EGFR;
XX	OS	src homology domain; SH2; SH3.
XX	OS	Homo sapiens.
FH	Key	Location/Qualifiers
FT	Domain	30 /note= "start of SH2 domain"
FT	Domain	133 /note= "start of SH3 domain"
FT	Misc-difference	183 /note= "corresponds to CNG codon, where N is unknown"
FT	Misc-difference	184 /note= "corresponds to TGA codon"
FT	Misc-difference	196 /note= "corresponds to TAA codon"
FT	Misc-difference	199 /note= "corresponds to TGA codon"
FT	Misc-difference	215 /note= "corresponds to TGA codon"
FT	Misc-difference	231 /note= "corresponds to TGA codon"
FT	Misc-difference	202 /note= "corresponds to TGA codon"
FT	Misc-difference	299 /note= "corresponds to TGA codon"
FT	Misc-difference	301 /note= "corresponds to TAA codon"
FT	Misc-difference	302 /note= "corresponds to TAA codon"
FT	Misc-difference	315 /note= "corresponds to TAG codon"
PN	WO9213001-A.	
XX	06-AUG-1992.	

XX 17-JAN-1992; 92MO-US00434.
 PF 18-JAN-1991; 91US-0643237.
 PR (UWNY) UNIV NEW YORK STATE.
 XX Margolis BL, Schlessinger J, Skolnik EY;
 PI WPI: 1992-284605/34.
 XX N-PSDB; AAQ27255.
 DR
 XX Probe from tyrosine-phosphorylated portion of receptor tyrosine
 PT kinase - used for detection of proteins capable of binding to
 PR receptors, useful for e.g. identifying susceptibility to cancer
 PT and diabetes
 XX
 PS Claim 18; Fig 16; 86pp; English.
 CC The GRB-2 partial coding sequence was isolated from human brain stem
 CC lambda gtl1 expression library by screening with tyrosine
 CC phosphorylated C-terminal tail of the EGF Receptor. The amino acid
 CC sequence deduced from the nucleotide sequence (the "ORF" includes
 CC several nonsense codons) contains unique SH2 and SH3 domains.
 CC See also AAQ27254.
 XX
 SQ Sequence 317 AA;

Query Match 12.4%; Score 210; DB 13; Length 317;
 Best Local Similarity 28.0%; Pred. No. 9,8e-11;
 Matches 52; Conservative 44; Mismatches 54; Indels 36; Gaps 8;
 QY 7 NRDSEBSWMYGRSROEAVALLQGRH-GVFLVRDSTSPGDVLSVSENSRVSHYIT 65
 DB 21 nylemkphwpfgykprakaemlskqrdgaflresesapgdslsvkfgtmcstfkv 80
 QY 66 NSSGRPPVPSPAQPPPGVSPSLRIGDQFEDSLPALLEFYKIHLYDTTLLIEPVARSR 125
 DB 81 lprwreylp-----lvv-----kfnslneivdyhr-----stg-----vstng 114
 QY 126 QGSGVILNQ-----EAEYVRALEDPNNGNDEEDLPFKKGDILRLIRDKPEQWMAEDSEG 180
 DB 115 q---iflrdieqvpqpclyvgalfdqpdegelgfrgdfihwmdnqdpwvkga-chg 170
 QY 181 KRGMIP 186
 DB 171 qgmip 176

RESULT 13
 ID AAR90583
 AC AAR90583 standard; Protein: 1290 AA.
 XX
 AC AAR90583;
 XX
 DT 09-APR-1996 (first entry)
 XX
 DE Phospholipase C-gamma-1.
 XX
 KM Phospholipase C-gamma-1; PLC-gamma-1; phosphoinositide.
 OS
 XX Rattus sp.
 PN US5474921-A.
 PD 12-DEC-1995.
 XX
 PF 15-OCT-1993; 93US-0138641.
 PR 15-OCT-1993; 93US-0138641.
 PA (MERI) MERCK & CO INC.

XX koblan KS, Pompiano DL;
 PI WPI: 1996-048545/05.
 DR N-PSDB; AAT12293.
 XX
 PT Method for expression and isolation of mammalian phospholipase
 PT C-gamma-1 - useful for determining inhibitory activity of test
 PT compounds towards phosphoinositide-specific phospholipase-C enzyme.
 XX
 PS Claim 1; Column 13-20; 25pp; English.
 CC
 CC Rat phosphoinositide-specific phospholipase C-gamma-1 (EC-3.1.4.3)
 CC (AAR90583) is obt'd. by expression in a transformed bacterial host of
 CC cDNA (AAT12292) encoding rat PLC-gamma-1 and DNA coding for an epitope
 CC tag (Glu-Glu-Phe) which is incorporated at the C-terminus of the
 CC recombinant PLC-gamma-1 to facilitate affinity purification. The
 CC recombinant PLC-gamma-1 is used to assay the inhibitory activity of
 CC a test cpds. against PLC-gamma-1.
 XX
 SQ Sequence 1290 AA;

Query Match 10.5%; Score 177; DB 17; Length 1290;
 Best Local Similarity 23.2%; Pred. No. 5,5e-07;
 Matches 48; Conservative 32; Mismatches 85; Indels 42; Gaps 5;
 QY 9 DSEBSSWMYGRSROEAV-ALLQGRHGVFLVRDSTSPGDVLSVSENSRVSHYIINS 67
 DB 661 naheskewynhaslrraqaelmlmvprdgafivr-krnepsyalsfraegklkhorvqg 719
 QY 68 SGPRPPVPSPAQPPPGVSPSLRIGDQFEDSLPALLEFY-----KIHLYDTTLLI 118
 DB 720 eg-----qlymlgnsefslvdlslyekhlyrkmklyrplneal 761
 QY 119 EPVARSQSGVILROEAEY-----VRALFPNGNDEEDLPFKKGDILRLIR 165
 DB 762 ekgytaepdygalayegnpfyveanpmptfkcaavkalfdykqredelftksaligv 821
 QY 166 DKPEEQWMAEDSEGKRGMTIPVYEX 192
 DB 822 ekqdgwrgdygkqklwfpnyvee 848

RESULT 14
 ID AAY49419
 AC AAY49419 standard; Protein: 845 AA.
 XX
 AC AAY49419;
 XX
 DT 13-MAR-2000 (first entry)
 XX
 DE PKA substrate, Vav-family protein.
 XX
 KM Protein kinase A; PKA; PKA signaling pathway; phosphorylation; cancer;
 KM kinase substrate; immunosuppressive disorder; proliferative disease;
 KM HIV infection; AIDS; immunodeficiency; autoimmune disease;
 KM systemic lupus erythematosus; Vav-family.
 XX
 OS Homo sapiens.
 PN WO962315-A2.
 PD 02-DEC-1999.
 XX
 PF 27-MAY-1999; 99WO-GB01680.
 XX
 PR 27-MAY-1998; 98NO-0002419.
 PR 30-DEC-1998; 98US-0114240.
 PA (LAUR-) LAURAS AS.
 PA (JONE/) JONES E L.
 XX

PI Hansson V, Levy FO, Mustelin T, Skalhogg BS, Sundvold V, Tasken K;
 XX Yang T, Altman A, Munshi A;
 DR WPI: 2000-086801/07.
 XX N-PSDB: AA246490.
 PT Altering the activity of protein kinase signaling pathways, used for
 PT treating immunosuppressive disorders, e.g. AIDS, proliferative
 PT disorders, e.g. cancers or autoimmune diseases
 XX
 PS Claim 17; Page 93; 11pp; English.
 XX
 CC The invention provides a novel method of altering the activity of the
 CC protein kinase A (PKA) signaling pathway in a cell that comprises
 CC altering the extent of phosphorylation of one or more PKA substrates, or
 CC kinase substrates downstream in the PKA signaling pathway. Pharmaceutical
 CC compositions containing a nucleic acid molecule that encodes a PKA
 CC substrate, or fragment, precursor or functionally equivalent variant,
 CC where the sequence is modified to alter its susceptibility to
 CC phosphorylation by PKA can be used for treating a disorder exhibiting
 CC abnormal PKA signaling activity, immunosuppressive disorders or
 CC proliferative diseases. They can be used for treating e.g. HIV
 CC infection, AIDS, common variable immunodeficiency or cancers. Conditions
 CC in which upregulation of the PKA pathway is required, such as autoimmune
 CC disease, e.g. systemic lupus erythematosus, may also be treated. The
 CC present sequence represents a PKA substrate, wherein the substrate is in
 CC the Vav-family, preferably Vav, Vav2, Vav-3, Vav-3beta, Vav transforming
 CC protein and Vav-2 oncogene.
 XX
 SQ Sequence 845 AA;
 Query Match 10.3%; Score 174; DB 21; Length 845;
 Best Local Similarity 27.3%; Pred. No. 5.8e-07;
 Matches 54; Conservative 27; Mismatches 67; Indels 50; Gaps 8;
 QY 16 WYWGRLSRQEAVALGQGHGVFLVRDSTSPGDYVLSVSENRSVSH-YTINSSGPRPPY 74
 DB 671 WYAGMERAGAESLIARSDGFLVGRVKAFAISIKYNEVKHKIKIMTAEG----- 725
 QY 75 PPSPAOPPPGVSPSRRLRIGDQ-FDSLPAALLEFYK-----IHYLDTT----- 115
 DB 726 -----LYITEKKAfrgtelvelvefyqnsldckfsldtltqfpfkepekr 771
 QY 116 TLIEPVARSROGSGVILROEAEYVRLFPNGNDEEDLPFKKGDLILRIKDPKEQ-WMN 174
 DB 772 tlrspavstkyfgt-----akarydfcardrselslkegdliklnkkqgqgw 822
 QY 175 AEDSEGRKGMIPPYVEK 192
 DB 823 ge-lygrvgrfpanyyee 839
 RESULT 15
 AAAY27125
 ID AAAY27125 standard; Protein: 797 AA.
 XX
 AC AAAY27125;
 XX
 DT 14-SEP-1999 (first entry)
 XX
 DE Amino acid sequence of human Vav.
 XX
 KW LAT; tyrosine kinase; linker for activation of T cell; TCR; human;
 KW T-cell receptor; TCR signalling pathway; neoplasia; inflammation;
 KW hypersensitivity; allergy; microbial infection; genetic disease;
 KW autoimmune disease; graft rejection; modulator; Vav.
 XX
 OS Homo sapiens.
 XX
 PN W09932627-A2.
 XX
 PD 01-JUL-1999.

XX
 PF 23-DEC-1998; 98WO-US27400.
 XX
 PR 23-DEC-1997; 97US-0068690.
 XX
 PA (USSH) US DEPT HEALTH & HUMAN SERVICES.
 XX
 PI Samelson LE, Zhang W;
 XX
 DR WPI: 1999-418926/35.
 DR N-PSDB: AAX89078.
 PT Linker for activation of T cell protein used to, e.g. screen for
 PT modulators of T cell signalling
 XX
 PS Disclosure; Fig 11B; 125pp; English.
 XX
 CC The invention relates to a protein tyrosine kinase substrate LAT (linker
 CC for activation of T cells) protein. Modulation of interaction between LAT
 CC and the T-cell receptor (TCR) affects the TCR signalling pathway. LAT is
 CC a substrate for tyrosine kinases and becomes phosphorylated after TCR
 CC engagement, resulting in recruitment of other signalling molecules. LAT
 CC is used to identify and test (ant)agonists of tyrosine kinase signalling
 CC pathways, i.e. modulation of interaction between tyrosine kinase
 CC substrates and intracellular ligands or between these ligands and other
 CC members of the pathway, including identification of downstream signalling
 CC proteins, particularly in immune system cells. These modulators are
 CC potentially useful as drugs and diagnostic agents, particularly for
 CC diseases that involve undesirable cell proliferation, differentiation,
 CC growth or T cell anergy, e.g. neoplasia, inflammation, hypersensitivity/
 CC allergy, microbial infection, metabolic, genetic or autoimmune diseases,
 CC graft rejection. LAT is also used to generate specific antibodies, used
 CC for detection of LAT. Nucleic acid that encodes LAT, or its fragments,
 CC are used to identify homologous sequences in other species; to detect the
 CC LAT gene and as sources of antisense therapeutics. Modulators of LAT are
 CC potentially more specific and less toxic than known immunosuppressants
 CC such as cyclosporin. The present sequence represents the amino acid
 CC sequence of human Vav.
 XX
 SQ Sequence 797 AA;
 Query Match 10.2%; Score 172.5; DB 20; Length 797;
 Best Local Similarity 27.1%; Pred. No. 7.3e-07;
 Matches 54; Conservative 27; Mismatches 67; Indels 51; Gaps 8;
 QY 16 WYWGRLSRQEAVALGQGHGVFLVRDSTSPGDYVLSVSENRSVSH-YTINSSGPRPP 73
 DB 622 WYAGMERAGAESLIARSDGFLVGRVKAFAISIKYNEVKHKIKIMTAEG----- 677
 QY 74 VPSPAOPPPGVSPSRRLRIGDQ-FDSLPAALLEFYK-----IHYLDTT----- 115
 DB 678 -----LYITEKKAfrgtelvelvefyqnsldckfsldtltqfpfkepekr 722
 QY 116 -TLIEPVARSROGSGVILROEAEYVRLFPNGNDEEDLPFKKGDLILRIKDPKEQ-WM 173
 DB 723 tlrspavstkyfgt-----akarydfcardrselslkegdliklnkkqgqgw 773
 QY 174 NAEDSEGRKGMIPPYVEK 192
 DB 774 rge-lygrvgrfpanyyee 791

Search completed: September 27, 2001, 16:41:22
 Job time: 695 sec
